

aiwa

TP-M720/M520

YST
YJST

MICRO CASSETTE RECORDER
GRABADOR DE MICRO CASETES

OPERATING INSTRUCTIONS
MODE D'EMPLOI
INSTRUCCIONES DE FUNCIONAMIENTO

AIWA CO., LTD.

84-TM1-909-01
980220AAO-O-A

The illustrations in this manual are based on the TP-M720.

Supplied accessories → A

TP-M720

- ① Micro cassette tape (MC-30) ② Monaural microphone equipped with remote control (microphone remote control) ③ Earphone ④ Carrying case

TP-M520

- ① Micro cassette tape (MC-30)

PRECAUTIONS

To maintain good performance

- Do not use the unit in places which are extremely hot, cold, dusty or humid. In particular, do not keep the unit:
 - in a high humidity area such as a bathroom
 - near a heater
 - in an area exposed to direct sunlight (e.g., inside a parked car, where there could be a considerable rise in temperature)
- Keep cassette tapes, magnetic cards and other magnetic recorded materials away from the speaker as the recorded information may be erased or noise may occur on cassette tapes.
- Do not open the cassette holder during playback, recording, fast forwarding or rewinding.

POWER SOURCES

Using with dry cell batteries → B

Insert two R6P (size AA) batteries with the + and - marks properly aligned.

Battery replacement

Replace the batteries with new ones when the OPE/REC indicator becomes dim or the tape speed slows.

Battery life

Battery	Battery life (EIAJ Recording)
Manganese (R6P) batteries	Approx. 6 hrs.
Alkaline (LR6) batteries	Approx. 15 hrs.

Notes on dry cell batteries

- Make sure that the + and - marks are correctly aligned.
- Do not mix different types of batteries, or an old battery with a new one.
- Never recharge the batteries, apply heat to them, soak them in water, or take them apart.
- Remove the batteries if the unit is not used for a long time.
- If liquid leaks from the batteries, wipe thoroughly to remove.

Using on AC house current → C

Connect an optional AC adaptor Aiwa AC-620/AC-300.

- ① to the DC 3V jack
② to a wall outlet

PREPARATION

REMOTE/MAIN/HOLD switch (TP-M720) → D

Set the REMOTE/MAIN/HOLD switch before use.

To operate only with the main unit, set the switch to MAIN.

To operate only with the microphone remote control, set the switch to REMOTE.

To prevent accidental operation, set the switch to HOLD. All the operation buttons on the main unit and the microphone remote control become deactivated.

HOLD switch (TP-M520) → D

When operating the unit, set the HOLD switch to OFF.

To prevent accidental operation, set the HOLD switch to ON. All the operation buttons and the REC switch become deactivated.

- If the switch is set to HOLD (ON for TP-M520) while the unit is in a particular operating mode, that mode is held and the unit cannot be operated in any other way.

Listening with the earphone → E

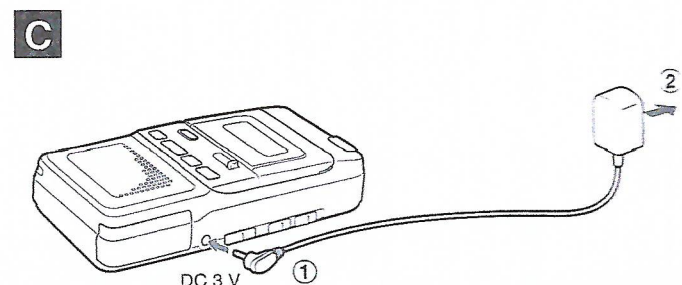
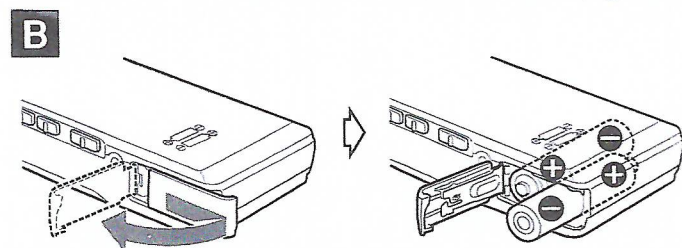
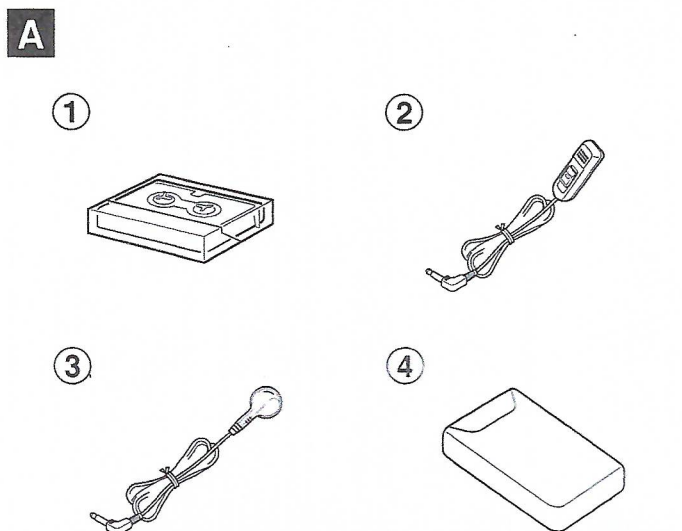
TP-M720: Connect the supplied earphone to the ② jack.

TP-M520: Connect an optional earphone (3.5ø mini-plug) to the ② jack.

- The sound does not come from the built-in speaker when the earphone is connected.

Usable tapes

Use only micro cassette tapes with the (MICROCASSETTE)™ mark. The micro cassette has a small dent (A) on the A side so that you can distinguish the tape side even in a dark place. → F



Use only micro cassette tapes

Use only micro cassette tapes with the **(MICROCASSETTE)**™ mark. The micro cassette has a small dent (a) on the A side so that you can distinguish the tape side even in a dark place. → **F**

Tape slack → **G**

Take up any slack in the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.

To prevent accidental erasure → **H**

Break off the plastic tabs on the cassette tape after recording, with a screwdriver or other pointed tool.

(a) Side A

(b) Tab for side A

To record on a cassette without tabs → **I**

Cover the tab openings with cellophane tape.

(c) Cellophane tape

MAINTENANCE

To clean the head and tape paths → **J**

After every 10 hours of use, clean the head and tape paths with a head cleaning cassette or a cotton swab moistened with cleaning fluid or denatured alcohol. (These cleaning kits are commercially available.)

When cleaning with a cotton swab (a), wipe the head (b), pinchroller (c), and capstan (d).

To clean the cabinet

Use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzene or thinner.

SPECIFICATIONS

Track system	Micro cassette, 2 tracks 1 channel, monaural
Usable tapes	(MICROCASSETTE) ™ (Normal position type)
Frequency response	250 – 5,000Hz (2.4 cm/sec) EIAJ
Tape speed	2.4 cm/sec or 1.2 cm/sec switchable
Microphone	Electret condenser microphone (monaural)
Maximum output	150 mW (EIAJ/DC)
Input jack	EXT MIC jack (monaural mini-jack) (1), 0.3 mV/2.2 k
Output jack	EAR jack (monaural mini-jack) (1)
Other jack	DC 3V jack
Speaker	Diameter 36 mm
Recording system	DC bias
Erasing system	DC erasure
Power sources	DC 3V, two R6P (size AA) dry cell batteries Domestic AC power using an optional AC adaptor (Aiwa AC-620/AC-300)
Battery life	See "Battery life" above.
Dimensions	62 (W) x 118.2 (H) x 29.3 (D) mm (2 1/2 x 4 1/2 x 1 3/16 in)
Weight	Approx. 128 g (0.28 lbs) (excluding batteries)

Specifications and external appearance are subject to change without notice.

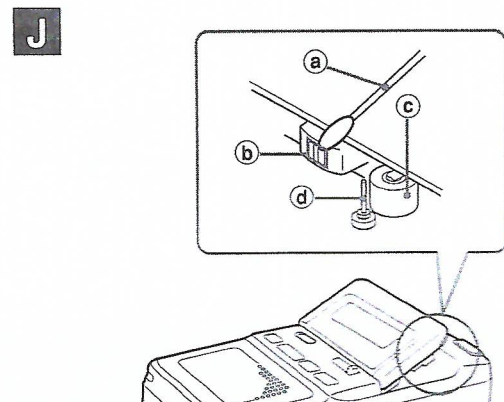
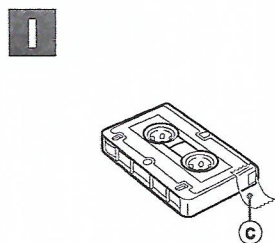
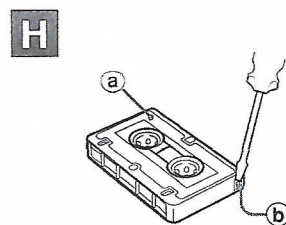
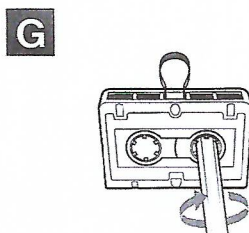
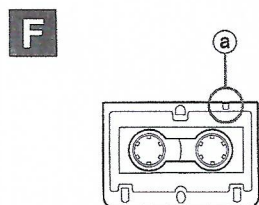
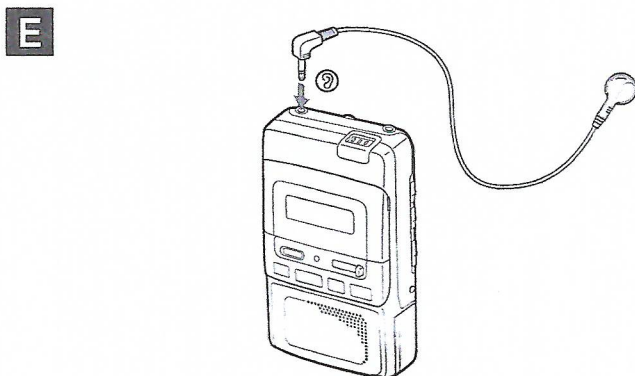
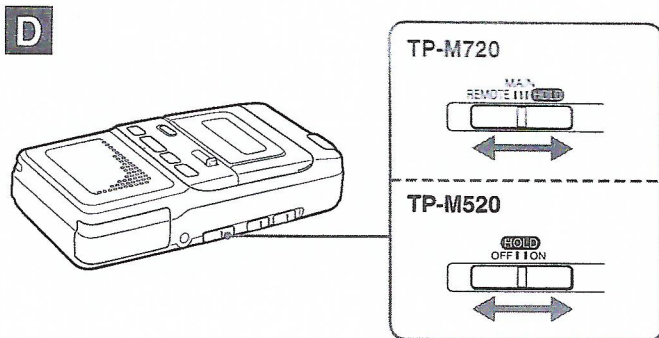
COPYRIGHT

Please check the laws on copyright relating to recordings from discs, radio or external tape for the country in which the machine is being used.

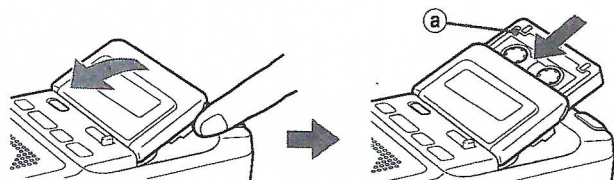
TROUBLE SHOOTING GUIDE

If the unit does not perform as expected, check the following table.

Symptoms	Causes
Tape does not move.	- The batteries are worn out. - The unit is in pause mode. - The REMOTE/MAIN/HOLD switch (HOLD switch) is set to a wrong position.
Tape transport is unstable.	- There is slack in the tape. - The pinch roller and capstan are dirty. - The tape is damaged.
There is no sound.	- The VOL control is turned down completely. - The earphone is not connected firmly when listening with the earphone.
The sound is too low or distorted.	- The playback head is dirty. - The batteries are worn out.
The playback speed is not correct.	The TAPE SPEED switch is set to the wrong position.
Recording cannot be done.	The erasure prevention tab on the recording side of the cassette has been removed.



K



Inserting a cassette → K

Insert a cassette with the recording/playback side (a) facing the cassette holder.

RECORDING FROM THE BUILT-IN MICROPHONE → L

- 1 Insert a cassette.
- 2 Set the TAPE SPEED switch.
 - 2.4: Normal recording
 - 1.2: Double time recording
 - E.g.) A 60-minute recording can be made using both sides of the MC-30 microcassette.
- 3 Slide the REC switch in the direction of the arrow (▲) pressing the small button on the switch to start recording.

The OPE/REC indicator lights in red and recording starts.

Orient the built-in microphone to the sound source.

Basic operation

To stop recording	Press the ■ STOP button.
To pause recording	Set the PAUSE/FAST PLAY switch to PAUSE. To resume recording, set the switch to OFF.

• The OPE/REC indicator flashes during pause mode.

When the end of the tape is reached

The tape stops automatically.

Tape counter

The readout of the tape counter changes during playback, recording, fast-forwarding or rewinding of the tape.

To set the counter to 000, press the COUNTER button to the right of the tape counter.

To monitor the sound that you are recording

Use the earphone. You cannot monitor the sound currently being recorded through the speaker.

Note

The standard speed of the micro cassette recorder is 2.4 cm/sec. If you record a tape with the TAPE SPEED switch set to 1.2 and play it back on another micro cassette recorder, playback sound may not be correct.

Recording from the microphone remote control (TP-M720 only) → M

- 1 Follow steps 1 and 2 of "RECORDING FROM THE BUILT-IN MICROPHONE".
- 2 Connect the microphone remote control to the EXT MIC jack and orient it to the sound source.
- 3 Set the REMOTE/MAIN/HOLD switch to REMOTE.
- 4 Slide the REC/STOP switch on the microphone remote control to REC pressing the small button on the switch to start recording.

To stop recording

Slide the REC/STOP switch to STOP.

Recording from an external microphone → N

To record sound with more clarity, use of an optional external microphone Aiwa CM-Z32 is recommended.

Connect the microphone to the EXT MIC jack and set the microphone near the sound source.

Note

When recording from the microphone remote control or an external microphone, move the microphone away from the main unit or the earphone to prevent howling.

To record only above a preset sound level → O

Recording will start when the unit detects sound above a certain preset level. If the unit does not detect the sound for about 4 seconds, recording will pause. This prevents tape waste and empty recording.

- 1 Set the V-SENSOR* switch to ON.
- 2 Adjust the sensor level.

Turn the ▲VOL (V-SENS LEVEL) control in the direction of ▲ (a) to lower the sensor level. General background noise will not be recorded, and only relatively loud sounds will be recorded.

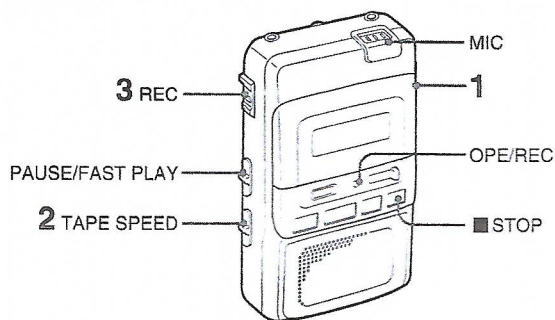
Turn the ▲VOL (V-SENS LEVEL) control in the opposite direction of ▲ (b) to increase the sensor level. Even relatively quiet sounds will be recorded.

* Voice Sensor Recording

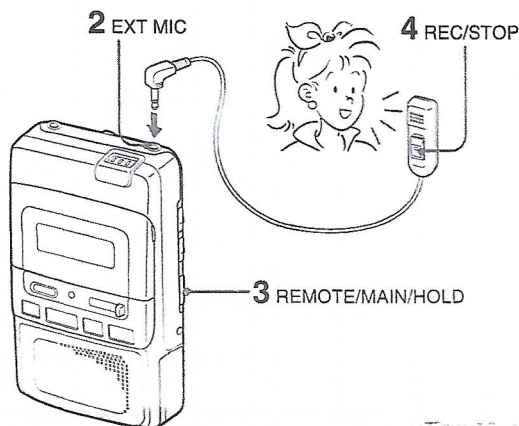
Sensor level adjustment

The ideal sensor level varies according to the loudness of the source sound. Experiment with the sensor level in advance to determine the optimum level before you start an important recording. Usually set the ▲VOL (V-SENS LEVEL) control to the white mark on the back of ▲VOL (V-SENS LEVEL) control first, then

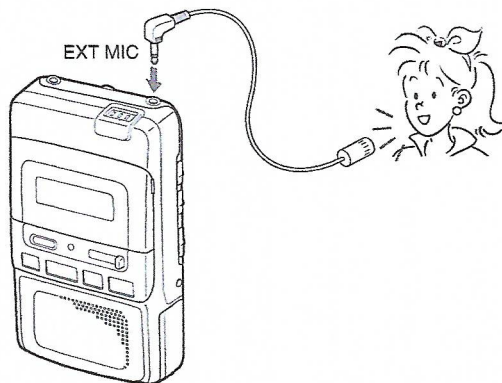
L



M

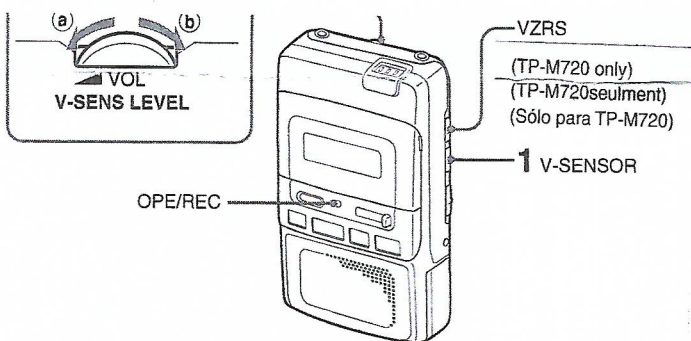


N



O

2



adjust it according to surrounding conditions.

Notes

- The OPE/REC indicator flashes when the unit enters recording pause mode with the V-SENSOR function on.
- When the recording resumes after sound detection, the very first sounds may not be recorded.

To record the human voice more clearly (TP-M720 only)

When the voice you want to record is soft, and the surroundings are noisy, set the VZRS switch to ON. The voice will be recorded more clearly.

How VZRS (Voice Zoom Recording System) works

VZRS emphasizes the frequency range of the human voice more than the high and low frequencies that usually comprise noise. Set the VZRS switch to ON. VZRS does not reduce noise already recorded on the tape.

To record from another unit → P

Connect the other unit to the EXT MIC jack of this unit, using the appropriate connecting cords.

- To connect to stereo source equipment
- To connect to monaural source equipment

Notes

- The connecting cords may vary according to the type of source equipment. Before connecting a unit, read the operating instructions of the connected unit.
- If the volume setting of the source equipment is too high, the recorded sound may be noisy or distorted. Be sure to set the volume of the source equipment to a moderate level.

PLAYBACK → Q

- 1 Insert a cassette.
- 2 Set the TAPE SPEED switch to the same position it was in during the recording.
- 3 Press the ► PLAY button.
The OPE/REC indicator turns on in green.
- 4 Adjust the volume.

Basic operation

To stop playback	Press the ■ STOP button.
To pause playback	Set the PAUSE/FAST PLAY switch to PAUSE. To resume playback, set the switch to OFF.

- The OPE/REC indicator flashes during pause mode.

To find the section you want to listen to

To fast forward/rewind

To fast forward: Press the ►► FF/CUE button during stop mode.

To rewind: Press the ◀◀ REW/REV button during stop mode.

Fast forward or rewind while checking the tape counter, and press the ■ STOP button at the desired point. If the tape winds to the end, the unit stops automatically.

To search while monitoring high-speed sound

Keep the ►► FF/CUE or ◀◀ REW/REV button pressed during playback by monitoring the sound. When you reach the desired point, release the button to start playback.

Note

Cuing is slower than reviewing.

To increase the playback speed

This unit can play back a tape at 1.2 times the normal speed. You can check the contents of the recording in a short time.

Set the PAUSE/FAST PLAY switch to FAST PLAY.

Notes

- Make sure that the TAPE SPEED switch is set to the same position as that used for the recording.
- After starting, set the PAUSE/FAST PLAY switch to OFF.

Playing back sections of tape repeatedly → R

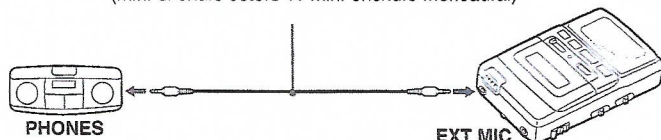
When you press the REPEAT button during playback, the tape will be rewound to a point approximately 4" seconds before the point where the button was pressed and playback starts automatically.

* The exact length of tape that is rewound may vary depending on the playback position on the tape.

P

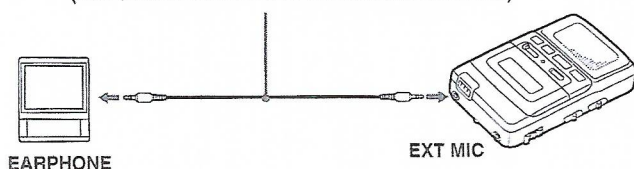
a

Connecting cord with resistor
(Stereo mini-plug ↔ Monaural mini-plug)
Cordon de raccordement avec résistance
(minifiche stéréo ↔ minifiche monaurale)
Cable de conexión con resistencia
(mini-enchufe estéreo ↔ mini-enchufe monoaural)

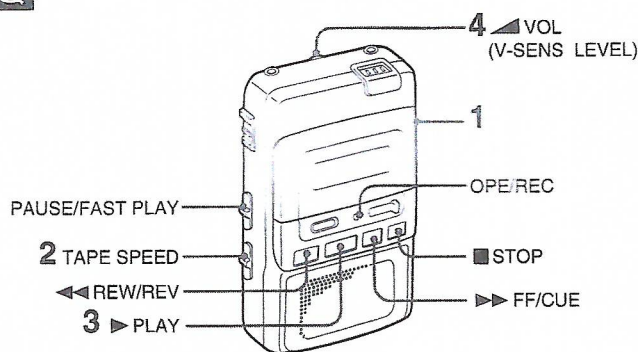


b

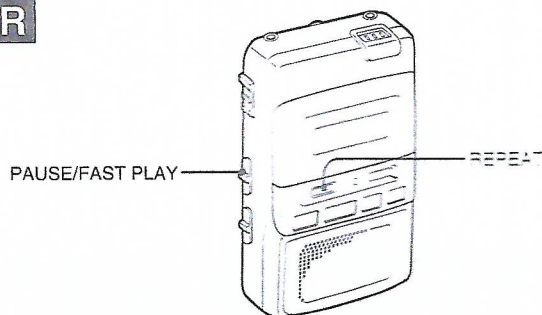
Connecting cord with resistor
(Monaural mini-plug ↔ Monaural mini-plug)
Cordon de raccordement avec résistance
(minifiche monaurale ↔ minifiche monaurale)
Cable de conexión con resistencia
(mini-enchufe monoaural ↔ mini-enchufe monoaural)

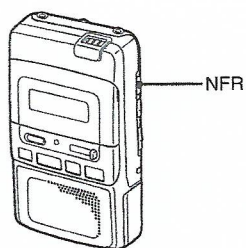


Q



R



**English****CORRECTION**

There are some incorrect descriptions on "To record the human voice more clearly" in the OPERATING INSTRUCTIONS according to change of parts name.

The **VZRS** switch is changed to the **NFR** switch.

Please replace **VZRS** with **NFR** in the instructions.

(**NFR: Noise Filtration Recording**)

Español**CORRECCION**

Hay algunas descripciones incorrectas en "Para grabar nítidamente la voz humana" del MANUAL DE INSTRUCCIONES, de acuerdo al cambio de nombre de las partes.

Se ha cambiado el interruptor **VZRS** por el interruptor **NFR**. Cambie la palabra **VZRS** por **NFR** en las instrucciones.

(**NFR: Grabación con filtro de ruido**)

Français**CORRECTION**

Il y a quelques indications incorrectes sous "Pour enregistrer plus clairement la voix humaine" dans le MODE D'EMPLOI suite au changement de dénomination de pièces.

Le commutateur **VZRS** est devenu commutateur **NFR**. Veuillez remplacer **VZRS** par **NFR** dans le mode d'emploi.

(**NFR: enregistrement avec filtrage du bruit**)

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